

ATTACHMENT 1

Stakeholder Comments

Stakeholder Comments

The stakeholder review period for the Wildcat Creek Watershed Restoration Action Strategy (WRAS) ended February 18, 2000. Well over 40 copies of the WRAS were distributed to stakeholders. However, only four individuals provided written comments on the WRAS. The WRAS is intended to be a living document; therefore, as new information or comments are available, they will be attached to the current version of the WRAS.

The Wildcat Creek WRAS has been revised to incorporate stakeholder comments, where appropriate. The following is a reproduction of the stakeholder comments:

General Comments

- I have read the draft completely and it sounds like a very thorough plan. I think the strategy seems to cover all bases. You have made it a "living" document, if we later find something that needs to be addressed. I think the Network Board is bringing together several of the groups that can have a definite impact on improving water quality. I particularly like the fact that you have incorporated local citizen groups (ie. Guardians and Wildcat Creek Foundation) as stakeholders. I view groups such as the Guardians as being purists in our views answering to no higher power, so to speak.. we just want the Wildcat to be the best it can be. Because these groups are included, you have brought together the "on the creek" people and the "clout" people - a winning combination. Overall, I think the "information sharing " is a powerful tool. I do think our overall task would be easier if we included landowners in the watershed. I realize we are talking about a lot of people, but perhaps we could have meetings and invite the public (education tool). These are the people who ultimately either protect or pollute the stream. Maybe this comes later in the plan.
- The Guardians have Section Coordinators, water quality monitoring people and some landowners who are in "direct" contact with the creek on a regular basis. I think we could act as the eyes and ears of the creek. We can further educate these Guardians to look beyond the trash and look for signs of other types of pollution during their monitoring. We then could bring that information back to the Network Board to figure out how to correct it. Is this how you envision the Guardians assisting in this endeavor? If I am off-base on this, please let me know.
- Individual homeowners who have direct sewage tiles into a stream or ditch. Has this been addressed by IDEM? Is this considered to be a problem? If there are a substantial number of these cases on a particular waterway, it seems it could have an impact on water quality, especially if we are talking about a small stream or ditch with minimum flow a good part of the year.
- If we correct a violation (ie. STP, industries, etc.) and improve the water quality in the creek, how are we assured that the violator does not violate again? I do not know the procedures in place for monitoring the creek. Does IDEM have the manpower and funds available to monitor the violators consistently? Are these violators responsible for monitoring themselves? If so, does this work?
- Are the IDEM people who are working on this Wildcat Creek Watershed Initiative dedicated exclusively to this project or are they working on other projects as well? I think that, if we take a "watershed approach", that there should be dedicated IDEM staff to monitor that watershed with that as their only responsibility. Perhaps, I am living in a fairyland...perhaps funds and staff are not available for this to be possible. Just wondering.

- I realize that I have a lot to learn and some of my questions and comments may be common knowledge for most of the people concerned. However, I do find all of this to be very interesting and I'm attempting to be a "sponge" for information.
- I think all of the IDEM, SWCD, IDNR people I have met seem to be very dedicated in their tasks. I very much appreciate this not only as a Guardian but as a citizen.
- Other points of concern – despite repeated requests for information, I still remain outside the “loop”. The Tissue and Sediment studies from 12 years ago were appreciated, however roundabout the source. I would really appreciate seeing the Macroinvertebrate survey information, including sampling protocol.

Specific Comments

Part I:

- Executive Summary, Water Quality Goal, page ii - Would you reference the WRAS section with the actual goals?
- Table 2-1, Wildcat Creek Population Projections 1990-2020, page 2-5 -The Howard County Percent Change is incorrect. It should be +.5.
- Table 3-2, NPDES Permitted Facilities - ID IN0037974 (on page 3-10) This facility was purchased by Martin Marietta.
- Section 3.3.1 Agriculture - Please add a map of regulated confinement feeding facilities. Everything else is mapped. They are important sources of pollution.
- Page ii: South Fork of the Wildcat for Cyanide
 - ii - South Fork of the Wildcat for Cyanide violations – not supported by chemical analysis. Why not address the Heavilon Ditch, swamp Creek, Campbell's Run, and Kilmore Creek violations(D.O., NH₃, E.coli, etc.) ?
 - ii - Prairie Creek Ditch – Can't find the data to support this.
- Carroll County took the lead?
- 2-11- Item 2.4 Areas of special concern – the former ING – RICH and AUGUSTUS HOOK sites are (were) present within the Wildcat Creek watershed (Blynn Ditch). Both were (are) superfund sites.
- 3-6 - Defining point sources – tabbing septage as a point source.
- 3-11 – Nonpoint Sources – tabbing septage as a non-point sources.
- See attached information sheets from I. S.D. H., ; historical review of Applicable State and Federal Laws.
- Who is supposed to be enforcing Rule 5 compliance anyway?
- 4-4 – Old Data! Cyanide levels don't support item #1 (page II).

- 4-6- Fish Consumption Advisories- 1999 Advisory was available for use. Additionally, the data that I finally received on 2/1/00, is old (Contaminant Monitoring Analytical Results of Fish Tissue and Surficial Aquatic Sediments From Sites In The Wildcat Creek Watershed – samples dated 1987 – 1994). Technological advances and subsequent sampling should be able to provide a better picture. What standards are being used for this? What standards are being used for the sediment samples? Not trying to be anymore cute than necessary, just what kind of bird is illustrated flying across the cover of this document?
- 4-8 – Item 4.5 – I have yet to see any Benthic Aquatic Macroinvertebrate Community Assessments. Fish and Sediment testing as per above (page 4-6).
- 5-18 - How large of a watershed? The wildcat creek drainage, by my calculations, is 514560 acres. Is this something that is to be used at smaller subunits? (ex : Heavilon Ditch, Spring Creek, Swamp Creek, etc.)
- R-1 – Stylistics within the references – consistency.
- Figure 2-2 14 Digit Hydrologic Unit Code Watersheds Within the Wildcat Creek Watershed- C. Hillis Watershed is labeled as the Talbert Ditch. Other watersheds are not identified. Might want to include the County Lines in this figure too.
- C-3 Typo – Third line – Aquatic LIRE ?, need spaces between monitored, items (c) and (d)
- C-8 – Fourth line – Middle Fork Wildcat – the nearest town should be either Burlington or possibly Forest. Additionally, note the typo – RecreCational.
- D- 1 – The new Mayor of Frankfort is The Honorable Roy Scott

Part II

- Recommended Management Strategies - The strategies need summarization. They are too wordy. They contain too much background material. Leave them as explanatory material, and replace them with one sentence summaries. Think about what you will use on your presentation overheads. For example:

Recommended Management Strategies

1 - Obtain targeting and priorities of watershed stake holders for allocation of water quality improvement resources.

2 - Develop Total Maximum Daily loads for watershed and allocate to sources.
- 7 - As noted before, provided data does not support cyanide violations or the dissolved oxygen violations.
- 9 - Item 4.3 – Might consider the I.S.D.H. definition of a failed septic system. Additionally, review the historical perspective provided in PART I.
- 11 - Item 4.7 – Point Vs. Non- point.

ATTACHMENT 2

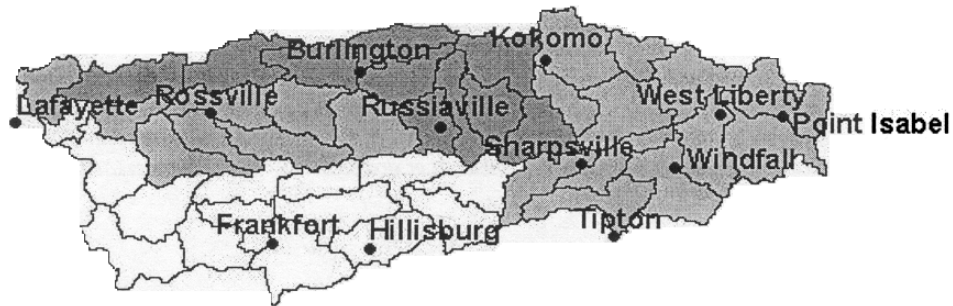
Wildcat Creek Draft Waterbody Assessments March 2000

WATERBODY ASSESSMENTS

Wildcat Watershed

05120107

DRAFT



Planning and Restoration Branch
Office of Water Management
Indiana Department of Environmental Management
Indianapolis, Indiana

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Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN

Wabash River

WATERBODY	INB0711	GRASSY FORK DITCH - HARPER DITCH		14-digit HUA	05120107010010
SEGMENT	00	GRASSY FORK DITCH - HARPER DITCH		16.63 miles	303(d) list No
Location				Discharge	HOWARD CO
Assessment notes	Site 23-026, 23-027, 23-028, 23-029, 23-030 Ref 72. Source agriculture - workgroup. Source septic and possible straight pipe from Port Isabel - W. Stone.			Assessment Date	19991108
				Sampled between	19980819 and 19981022
Designated Use	Support	Causes (Pollutants or stressors)		Sources (Activities)	
Aquatic Life Support	Fully				
Fish Consumption	Not assessed				
Primary Contact (Recr)	Not supporting				
	Pathogens	S	Livestock	S	
	Pathogens	S	Illicit connections/illegal hook-ups/dry weather flows	S	
	Pathogens	S	Onsite Wastewater Systems (Septic Tanks)	S	
Assessment Method				Assessment ID	559
	240 Non-fixed station physical/chemical (conventional + toxicants)				
	422 Water column/ E. coli grab samples				

WATERBODY	INB0712	MIDDLE FORK DITCH	14-digit HUA	05120107010020
SEGMENT	00	MIDDLE FORK DITCH	12.98 miles	303(d) list No
Location			Discharge HOWARD CO	Assessment Date 19991108
Assessment notes	Site 23-023, 23-024, 23-025 Ref 72.		Sampled between 19980814	and 19980814
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Fully			
Assessment Method			Assessment ID	560
240 Non-fixed station physical/chemical (conventional + toxicants)				
422 Water column/ E. coli grab samples				

WATERBODY	INB0713	MUD CREEK - HEADWATERS (TIPTON)		14-digit HUA	05120107010030
SEGMENT	00	MUD CREEK - HEADWATERS (TIPTON)		303(d) list	No
Location			Discharge	TIPTON CO	Assessment Date 19991108
Assessment notes	Site 23-001, 23-002, 23-003, 23-004 Ref 72. Survey Section field note: House subdivision and field tiles upstream (illicit connections), livestock, algae, field tiles flowing (crop related), dredging.		Sampled between	19980814	and 19980814
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)		
Aquatic Life Support	Fully				
Fish Consumption	Not assessed				
Primary Contact (Recr)	Not supporting				
	Pathogens	S	Crop-related Sources	S	
	Pathogens	S	Livestock	S	
	Pathogens	S	Illicit connections/illegal hook-ups/dry weather flows	S	
Assessment Method				Assessment ID	561
	240 Non-fixed station physical/chemical (conventional + toxicants)				
	422 Water column/ E. coli grab samples				

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

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BASIN

Wabash River

WATERBODY	INB0714	MUD CREEK - NORTH CREEK	14-digit HUA	05120107010040
SEGMENT	00	MUD CREEK - NORTH CREEK	14.06 miles	303(d) list No
Location			Discharge TIPTON CO	Assessment Date 19991108
Assessment notes	Site 230995, 23-006, 23-007, 23-008, 169-045, 23-009 Ref 72, 73. Habitat- channelized; unsightly nuisance algae - BSS file notes. Two discharge pipes; pasture with access to stream - Surveys field notes. Possible septs or str pipe frm Nevada - W Stone.		Sampled between 19980701	and 19981030
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	562
Aquatic Life Support	Not supporting	Biotic community status	S Channelization	S
Fish Consumption	Not assessed			
Primary Contact (Recr)	Not supporting			
		Pathogens	H Livestock	H
		Pathogens	H Illicit connections/illegal hook-ups/dry weather flows	H
Assessment Method		Assessment ID		562
240 Non-fixed station physical/chemical (conventional + toxicants)				
332 Fish community assessment, IBI				
422 Water column/ E. coli grab samples				

WATERBODY	INB0715	TURKEY CREEK (TIPTON)	14-digit HUA	05120107010050
SEGMENT	00	TURKEY CREEK (TIPTON)	14.06 miles	303(d) list No
Location			Discharge TIPTON CO	Assessment Date 19991108
Assessment notes	Site 169-035, 23-010 - Ref 72, 73. Buffer strips, BSS field notes. 11/8/99.		Sampled between 19980701	and 19981030
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Fully			
Assessment Method		Assessment ID		563
240 Non-fixed station physical/chemical (conventional + toxicants)				
332 Fish community assessment, IBI				
422 Water column/ E. coli grab samples				

WATERBODY	INB0716	TURKEY CREEK - ASKREN/ ROUND PRAIRIE DITCHES	14-digit HUA	05120107010060
SEGMENT	00	TURKEY CREEK - ASKREN/ ROUND PRAIRIE DITCHES	14.36 miles	303(d) list No
Location	Above and including Round Prairie Creek.		Discharge TIPTON CO	Assessment Date 19991108
Assessment notes	Site 23-011, 23-012, 23-013, 23-014 - Ref 72.		Sampled between 19980814	and 19981022
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Fully			
Assessment Method		Assessment ID		564
240 Non-fixed station physical/chemical (conventional + toxicants)				
422 Water column/ E. coli grab samples				

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BASIN Wabash River

WATERBODY INB0716 **TURKEY CREEK - ASKREN/ ROUND PRAIRIE DITCHES** **14-digit HUA** 05120107010060
SEGMENT T1030 Turkey Creek 3.17 miles **303(d) list** No

Location **Discharge** TIPTON CO **Assessment Date** 19991108
Assessment notes site 23-015, 23-016 Ref 72. Possible str pipe or septic from Windfall - W Stone. 11/30/99. **Sampled between** 19980814 and 19981022

Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**
 Aquatic Life Support Fully

Fish Consumption Not assessed

Primary Contact (Recr) Not supporting

Pathogens

S Nonpoint source/ unknown origin

S

Assessment Method

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

Assessment ID

565

WATERBODY INB0717 **WILDCAT CREEK - MUD CREEK - IRWIN CREEK** **14-digit HUA** 05120107010070
SEGMENT 00 Mud Creek 4.13 miles **303(d) list** No

Location Below Irwin Creek to mouth at Wildcat Creek. **Discharge** HOWARD CO **Assessment Date** 19991108
Assessment notes Site 23-019, 23-020 Ref 72. **Sampled between** 19980814 and 19981022

Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**
 Aquatic Life Support Fully

Fish Consumption Not assessed

Primary Contact (Recr) Fully

Assessment Method

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

Assessment ID

567

SEGMENT T1001 Wildcat Creek - mainstem 1.39 miles **303(d) list** Listed 1996

Location **Discharge** HOWARD CO **Assessment Date** 19980301
Assessment notes Number 97 on 1998 303d list - Ref 31 3/1/98. Fish consumption - Ref 35. ALUS revised site 23-031 Ref 72; 11/8/99. **Sampled between** 19980814 and 19981022

Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**
 Aquatic Life Support Fully

Fish Consumption Not supporting

PCBs

H Source Unknown

H

Primary Contact (Recr) Fully

Assessment Method

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

Assessment ID

370

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Monday, March 13, 2000 rptWBAssessment_wildcat

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WATERBODY ASSESSMENTS

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BASIN Wabash River

WATERBODY	INB0717	WILDCAT CREEK - MUD CREEK - IRWIN CREEK	14-digit HUA	05120107010070		
SEGMENT	T1031	Mud Creek - Irwin Creek	8.08 miles	303(d) list No		
Location	Mud Creek from Turkey Creek confluence to below and including Irwin Creek.		Discharge	HOWARD CO		
Assessment notes	Site 23-017, 23-018 Ref 72; 11/8/99. Source possibly failing septic; W Stone 11/30/99.		Assessment Date	19991108		
Assessment notes			Sampled between	19980814 and 19981022		
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)			
Aquatic Life Support	Fully					
Fish Consumption	Not assessed					
Primary Contact (Recr)	Not supporting					
		Pathogens	M	Onsite Wastewater Systems (Septic Tanks) M		
Assessment Method			Assessment ID	568		
240 Non-fixed station physical/chemical (conventional + toxicants)						
422 Water column/ E. coli grab samples						
WATERBODY	INB0718	WILDCAT CREEK - JEROME	14-digit HUA	05120107010080		
SEGMENT	T1002	WILDCAT CREEK - JEROME	5.61 miles	303(d) list Listed 1996		
Location	Includes part of Kokomo Reservoir No 2 that is upstream of US35/SR22.		Discharge	HOWARD CO		
Assessment notes	Number 97 on 1998 303d list - Ref 31; 3/1/98. Fish consumption - Ref 35. Site 23-032, 23-01, 23-033, 23-034, 23-035 Ref 72. ALUS revised 11/8/99. Source Ref R Paulus, Howard Co Health Dept presentation 5/99.		Assessment Date	19991108		
Assessment notes			Sampled between	19980805 and 19981022		
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)			
Aquatic Life Support	Fully					
Fish Consumption	Not supporting					
Primary Contact (Recr)	Not supporting					
		PCBs	H	Source Unknown H		
		Pathogens	M	Illicit connections/illegal hook-ups/dry weather flows M		
Assessment Method			Assessment ID	371		
240 Non-fixed station physical/chemical (conventional + toxicants)						
421 Water column/ five E. coli samples in 30 days						
422 Water column/ E. coli grab samples						
WATERBODY	INB0719	WILDCAT CREEK - KOKOMO RESERVOIR NO 2	14-digit HUA	05120107010090		
SEGMENT	00	Smith Ditch	0.5 miles	303(d) list No		
Location			Discharge	HOWARD CO		
Assessment notes	Site 23-036, 23-036A, 23-036B, 23-037 Ref 72.		Assessment Date	19991108		
Assessment notes			Sampled between	19980814 and 19981022		
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)			
Aquatic Life Support	Fully					
Fish Consumption	Not assessed					
Primary Contact (Recr)	Fully					
Assessment Method			Assessment ID	569		
240 Non-fixed station physical/chemical (conventional + toxicants)						
422 Water column/ E. coli grab samples						

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BASIN Wabash River

WATERBODY	INB0719	WILDCAT CREEK - KOKOMO RESERVOIR NO 2	14-digit HUA	05120107010090
SEGMENT	P1003	Kokomo Reservoir No 2	4.79 miles	303(d) list Listed 1998
Location			Discharge	HOWARD CO
Assessment notes	Number 73 on 1998 303d list - Ref 31 3/1/98. Fish consumption - Ref 35. ALUS and RECR assessed Site 23-036, 23-036A, 23-036B, 23-037 Ref 72; 11/8/99.		Assessment Date	19991108
			Sampled between	19980814 and 19981022
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Fully			
Fish Consumption	Partial			
		Metals	S	
		Mercury	S	Source Unknown
Primary Contact (Recr)				S
Assessment Method		Assessment ID		
240 Non-fixed station physical/chemical (conventional + toxicants)		372		
422 Water column/ E. coli grab samples				

SEGMENT	P1004	Kokomo Reservoir No 1	0.24 miles	303(d) list No
Location	Mileage measured north to south at approximate east - west midpoint. There is no surface hydrologic connection with Reservoir No 2 on Raster topographic map.		Discharge	HOWARD CO
Assessment notes	Site 23-036, 23-036A, 23-036B, 23-037 Ref 72.		Assessment Date	19991108
			Sampled between	19980814 and 19981022
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)				

Assessment Method	Assessment ID
240 Non-fixed station physical/chemical (conventional + toxicants)	570
422 Water column/ E. coli grab samples	

WATERBODY	INB071A	WILDCAT CREEK - STAHL/ CANNON GOYER DITCHES	14-digit HUA	05120107010100
SEGMENT	00	Stahl Ditch	3.97 miles	303(d) list No
Location			Discharge	HOWARD CO
Assessment notes			Assessment Date	
			Sampled between	and
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Not assessed			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Not assessed			

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BASIN

Wabash River

WATERBODY	INB071A	WILDCAT CREEK - STAHL/ CANNON GOYER DITCHES	14-digit HUA	05120107010100
SEGMENT	T1005	Prairie Creek Ditch - upper	1.25 miles	303(d) list Listed 1998
Location	Discharge HOWARD CO			
Assessment notes	Assessment Date 19991130			
	Sampled between 19980814 and 19981022			
	Number 83 on 1998 303d list - Ref 31 3/1/98. Site 23-40, 23-42 Ref 72. Scum, floating dead algae observed - Surveys field notes. 11/8/99. ALUS revised. Source rural nonpoint W Stone. 11/30/99.			
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Not supporting			
		Pathogens	M	Nonpoint source/ unknown origin
Assessment Method			Assessment ID	572
	240 Non-fixed station physical/chemical (conventional + toxicants)			
	422 Water column/ E. coli grab samples			
SEGMENT	T1006	Wildcat Creek - mainstem	2.95 miles	303(d) list Listed 1996
Location	Discharge HOWARD CO			
	Assessment Date 19991130			
Assessment notes	Sampled between 19960101 and 19981231			
	97 on 1998 303d list, Ref 31. FISH- Ref 35. Site WC-66, 23-045 to 23-053, 169-065, - Ref 72, 73, 77. High DELTs- BSS field notes 11/8/99. ALUS non supp to part supp. Str pipe Hillsdale- Ref 78, W Stone 11/30/99. Possible lead cause; more information needed.			
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Partial		574	
		Metals	T	
		Lead	T	Combined Sewer Overflow
		Cyanide	M	Industrial Point Sources
Fish Consumption	Not supporting			
		PCBs	H	Source Unknown
Primary Contact (Recr)	Not supporting			
		Pathogens	M	
Assessment Method			Assessment ID	574
	230 Fixed station physical/chemical (conventional plus toxic pollutants)			
	240 Non-fixed station physical/chemical (conventional + toxicants)			
	250 Chemical monitoring of sediments			
	332 Fish community assessment, IBI			
	376 Qualitative Habitat Evaluation Index, QHEI; by professional			
	422 Water column/ E. coli grab samples			

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN Wabash River

WATERBODY	INB071A	WILDCAT CREEK - STAHL/ CANNON GOYER DITCHES	14-digit HUA	05120107010100
SEGMENT	T1025	Wildcat Creek - upstream of water intake	0.23 miles	303(d) list Listed 1996
Location	Below Cannon Goyer Ditch to Kokomo water intake.		Discharge	HOWARD CO
Assessment notes	97 on 1998 303d list, Ref 31. FISH- Ref 35. Site WC-66,23-045 to 23-053, 169-065,- Ref 72,73,77. High DELTs- BSS field notes 11/8/99. ALUS non supp to part supp. Str pipe Hillsdale- Ref 78, W Stone 11/30/99. Possible lead cause; more information needed.		Assessment Date	19991130
			Sampled between	19960101 and 19981231
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	375
Aquatic Life Support	Partial	Metals	T	
		Lead	T	
		Cyanide	S	Industrial Point Sources M
		Cyanide	S	Source Unknown H
Drinking Water Supply	Not assessed			
Fish Consumption	Not supporting	PCBs	H	Source Unknown H
Primary Contact (Recr)	Not supporting	Pathogens	M	Combined Sewer Overflow M
Assessment Method		Assessment ID		375
230 Fixed station physical/chemical (conventional plus toxic pollutants)				
240 Non-fixed station physical/chemical (conventional + toxicants)				
332 Fish community assessment, IBI				
376 Qualitative Habitat Evaluation Index, QHEI; by professional				
SEGMENT	T1032	Prairie Creek Ditch - lower	1.34 miles	303(d) list Listed 1998
Location			Discharge	HOWARD CO
Assessment notes	Number 83 on 1998 303d list - Ref 31 3/1/98. Site 23-043 Ref 72. ALUS revised. 11/8/99. Source urban and rural nonpoint - 11/30/99.		Assessment Date	19991130
			Sampled between	19980814 and 19981022
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Not supporting	Pathogens	M	Nonpoint source/ unknown origin M
Assessment Method		Assessment ID		573
240 Non-fixed station physical/chemical (conventional + toxicants)				
422 Water column/ E. coli grab samples				

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN

Wabash River

WATERBODY	INB071A	WILDCAT CREEK - STAHL/ CANNON GOYER DITCHES	14-digit HUA	05120107010100
SEGMENT	T1033	Cannon - Goyer Ditch	3.32 miles	303(d) list No
Location	Discharge HOWARD CO			
Assessment notes	Site 23-044 Ref 72. Drain pipes observed, possibly urban nonpoint - JL McFall 11/8/99. Source urban nonpoint - W Stone 11/30/99.		Assessment Date	19991108
			Sampled between	19980814 and 19981022
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Not supporting			
		Pathogens	S Urban Runoff/Storm Sewers	S
		Pathogens	S Nonpoint source/ unknown origin	S
Assessment Method				Assessment ID 571
	240 Non-fixed station physical/chemical (conventional + toxicants)			
	422 Water column/ E. coli grab samples			
SEGMENT	T1034	Wildcat Creek - mainstem	4.17 miles	303(d) list Listed 1996
Location	Below Kokomo Reservoir Number 2 to confluence with Cannon - Goyer Ditch.		Discharge	HOWARD CO
Assessment notes	Number 97 on 1998 303d list- Ref 31 3/1/98. Fish consumption- Ref 35. Site 23-038, 23-039 - Ref 72,73,77. Stream is flow- limited at times - BSS field notes 11/8/99. ALUS revised non supp to full supp 11/30/99.		Assessment Date	19991108
			Sampled between	19980701 and 19981030
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Fully			
Fish Consumption	Not supporting			
Primary Contact (Recr)	Fully	PCBs	H Source Unknown	H
Assessment Method				Assessment ID 575
	240 Non-fixed station physical/chemical (conventional + toxicants)			
	250 Chemical monitoring of sediments			
	323 Macroinvertebrate community assessment, mIBI family level			
	376 Qualitative Habitat Evaluation Index, QHEI; by professional			
	422 Water column/ E. coli grab samples			

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN Wabash River

WATERBODY	INB071B	KOKOMO CREEK - HEADWATERS	14-digit HUA	05120107010111
SEGMENT	00	Finn Ditch and other tributaries	8.35 miles	303(d) list No
Location	Discharge		HOWARD CO	Assessment Date 19991130
Assessment notes	Site 23-054 through 23-059A - Ref 72. Str pipes from Hemlock into Taylor Run Ditch - Ref 78.		Sampled between	19980814 and 19981022
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Partial			
		Pathogens	S	Illicit connections/illegal hook-ups/dry weather flows
		Pathogens	S	Onsite Wastewater Systems (Septic Tanks)
		Pathogens	S	Nonpoint source/ unknown origin
Assessment Method			Assessment ID	576
240	Non-fixed station physical/chemical (conventional + toxicants)			
422	Water column/ E. coli grab samples			

SEGMENT	T1007	Kokomo Creek - mainstem headwaters	12.04 miles	303(d) list Listed 1996
Location	Discharge		HOWARD CO	Assessment Date 19991130
Assessment notes	Number 72 on 1998 303d list - Ref 31 3/1/98. Fish consumption - Ref 35. Site 23-054 through 23-059A - Ref 72. Str pipes from Center - Ref 78. Source illicit connections, package plants - W Stone. ALUS updated non supp to full supp 11/30/99.		Sampled between	19980814 and 19981022
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Fully			
Fish Consumption	Not supporting			
Primary Contact (Recr)	Partial			
		PCBs	H	Industrial Point Sources
		Pathogens	S	Package Plants (Small Flows)
		Pathogens	S	Illicit connections/illegal hook-ups/dry weather flows
		Pathogens	S	Onsite Wastewater Systems (Septic Tanks)
		Pathogens	S	Nonpoint source/ unknown origin
Assessment Method			Assessment ID	368
240	Non-fixed station physical/chemical (conventional + toxicants)			
422	Water column/ E. coli grab samples			

WATERBODY	INB071C	KOKOMO CREEK - LOWER	14-digit HUA	05120107010120
SEGMENT	00	Martin - Youngman Ditch basin	6.96 miles	303(d) list No
Location	Discharge		HOWARD CO	Assessment Date 19991108
Assessment notes	Str pipes from Oakford - Ref 78.		Sampled between	19980814 and 19981022
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Not assessed			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Not supporting			
		Pathogens	M	Illicit connections/illegal hook-ups/dry weather flows
Assessment Method			Assessment ID	577
175	Occurrence of conditions judged to cause impairment			
240	Non-fixed station physical/chemical (conventional + toxicants)			
422	Water column/ E. coli grab samples			

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates.
Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN

Wabash River

WATERBODY	INB071C	KOKOMO CREEK - LOWER	14-digit HUA	05120107010120
SEGMENT	T1026	Kokomo Creek - lower	4.29 miles	303(d) list Listed 1996
Location			Discharge	HOWARD CO
Assessment notes	Number 72 on 1998 303d list - Ref 31 03/01/1998. Fish consumption - Ref 35. Site 23-060 through 23-064 - Ref 72. Site 567-98 cause priority organic is PAHs; pesticide is chlordane- Ref 77.		Assessment Date	19991108
			Sampled between	19980814 and 19981022
<u>Designated Use</u>	<u>Support</u>	<u>Causes (Pollutants or stressors)</u>	<u>Sources (Activities)</u>	369
Aquatic Life Support	Not supporting	Pesticides	S Contaminated Sediments	H
		Priority organics	S Contaminated Sediments	H
		PCBs	H Industrial Point Sources	H
		PCBs	H Contaminated Sediments	H
Fish Consumption	Not supporting	PCBs	H Industrial Point Sources	H
		PCBs	H Contaminated Sediments	H
Primary Contact (Recr)	Not supporting	Pathogens	M Package Plants (Small Flows)	M
		Pathogens	M Onsite Wastewater Systems (Septic Tanks)	M
		Pathogens	M Nonpoint source/ unknown origin	M
<u>Assessment Method</u>			<u>Assessment ID</u>	369
	240 Non-fixed station physical/chemical (conventional + toxicants)			
	250 Chemical monitoring of sediments			
	422 Water column/ E. coli grab samples			

WATERBODY	INB0721	WILDCAT CREEK - KITTY RUN/ EDWARDS DITCH	14-digit HUA	05120107020010
SEGMENT	00	Kitty Run and other tributaries	3.37 miles	303(d) list No
Location			Discharge	HOWARD CO
Assessment notes	Site 23-066 - Ref 72.		Assessment Date	19991130
			Sampled between	and
<u>Designated Use</u>	<u>Support</u>	<u>Causes (Pollutants or stressors)</u>	<u>Sources (Activities)</u>	
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Partial	Pathogens	S Nonpoint source/ unknown origin	S
<u>Assessment Method</u>			<u>Assessment ID</u>	578
	240 Non-fixed station physical/chemical (conventional + toxicants)			
	422 Water column/ E. coli grab samples			

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN

Wabash River

WATERBODY	INB0721	WILDCAT CREEK - KITTY RUN/ EDWARDS DITCH	14-digit HUA	05120107020010
SEGMENT	T1008	Wildcat Creek - mainstem	8.14 miles	303(d) list Listed 1996
Location		Discharge	HOWARD CO	Assessment Date 19991108
Assessment notes	Site 23-065 sediment, 23-067 through 23-069, WC-60 - Ref 72. Str pipe from Devon Woods - Ref 78. Sources industrial, muni pt, CSO, urban nonpt, super fund site - JL McFall. Cause Priority organic, PAHs - 77. Possible lead cause; more information needed.		Sampled between	19960101 and 19981231
<u>Designated Use</u>	<u>Support</u>	<u>Causes (Pollutants or stressors)</u>	<u>Sources (Activities)</u>	579
Aquatic Life Support	Not supporting	Priority organics	S Industrial Point Sources	H
		Priority organics	S Contaminated Sediments	H
		PCBs	H Industrial Point Sources	H
		PCBs	H Contaminated Sediments	H
		Metals	T	
		Lead	T	
		Cyanide	S	
Fish Consumption	Not supporting	PCBs	H Industrial Point Sources	H
		PCBs	H Contaminated Sediments	H
Primary Contact (Recr)	Not supporting	Pathogens	S Combined Sewer Overflow	S
<u>Assessment Method</u>		<u>Assessment ID</u>		579
	175 Occurrence of conditions judged to cause impairment			
	240 Non-fixed station physical/chemical (conventional + toxicants)			
	250 Chemical monitoring of sediments			
	422 Water column/ E. coli grab samples			

WATERBODY	INB0722	LITTLE WILDCAT CREEK - EAST AND WEST FORKS	14-digit HUA	05120107020020
SEGMENT	00	Little Wildcat Creek - east fork	7.21 miles	303(d) list No
Location		Discharge	HOWARD CO	Assessment Date 19991108
Assessment notes	Site 23-071 through 23-075 ref 72. Str pipes from Ivy hills, Alto, West Middleton - Ref 78.		Sampled between	19980814 and 19981022
<u>Designated Use</u>	<u>Support</u>	<u>Causes (Pollutants or stressors)</u>	<u>Sources (Activities)</u>	580
Aquatic Life Support	Fully	Pathogens	S Package Plants (Small Flows)	S
		Pathogens	S Combined Sewer Overflow	S
		Pathogens	S Illicit connections/illegal hook-ups/dry weather flows	S
Fish Consumption	Not assessed			
Primary Contact (Recr)	Not supporting			
<u>Assessment Method</u>		<u>Assessment ID</u>		580
	240 Non-fixed station physical/chemical (conventional + toxicants)			
	422 Water column/ E. coli grab samples			

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN Wabash River

WATERBODY INB0722 **LITTLE WILDCAT CREEK - EAST AND WEST FORKS** **14-digit HUA** 05120107020020
SEGMENT T1009 Kelly West Ditch 1.83 miles **303(d) list** Listed 1996
Location **Discharge** TIPTON CO **Assessment Date** 19991108
Assessment notes Number 78 on 1998 303d list - Ref 31 03/01/1998. **Sampled between** 19980814 and 19981022
Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**
 Aquatic Life Support Fully
 Fish Consumption Not assessed
 Primary Contact (Recr)

Assessment Method

Assessment ID 581

- 240 Non-fixed station physical/chemical (conventional + toxicants)
- 422 Water column/ E. coli grab samples

SEGMENT T1035 Unnamed tributary 0.3 miles **303(d) list** No
Location Runs along south side of CR 600S to confluence with Kelly West Ditch about 3/8 mile east of US 31 in NW Tipton County. Mileage estimated from RF3 overlay on Raster map in ArcView. Not in RF3. **Discharge** TIPTON CO **Assessment Date** 19991108
Assessment notes Site 23-70A, 23-70B; chloride and total dissolved solids were both higher than expected - Ref 72. Ditch appears to be in depression - Raster maps. **Sampled between** 19980814 and 19981022
Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)** 582
 Aquatic Life Support Not supporting
 Organic enrichment/Low DO S Package Plants (Small Flows) S
 Organic enrichment/Low DO S Livestock S
 Salinity/TDS/chlorides S Package Plants (Small Flows) S
 Salinity/TDS/chlorides S Livestock S
 Salinity/TDS/chlorides S Channelization S
 Salinity/TDS/chlorides S Natural Sources S
 Fish Consumption Not assessed
 Primary Contact (Recr)

Assessment Method

Assessment ID 582

- 240 Non-fixed station physical/chemical (conventional + toxicants)
- 422 Water column/ E. coli grab samples

SEGMENT T1036 Little Wildcat Creek - west fork 7.66 miles **303(d) list** No
Location **Discharge** HOWARD CO **Assessment Date** 19991108
Assessment notes Site 23-076, 23-077 - Ref 72. **Sampled between** 49980814 and 19981022
Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**
 Aquatic Life Support Fully
 Fish Consumption Not assessed
 Primary Contact (Recr)

Assessment Method

Assessment ID 583

- 240 Non-fixed station physical/chemical (conventional + toxicants)
- 422 Water column/ E. coli grab samples

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN Wabash River

WATERBODY		INB0723	LITTLE WILDCAT CREEK - LOWER		14-digit HUA		05120107020030
SEGMENT		00	William Vogus Ditch basin		9.75 miles	303(d) list	No
Location				Discharge	HOWARD CO	Assessment Date	19991108
Assessment notes		Site Site 23-082, 23-082A - Ref 72.		Sampled between		19980814	and 19981022
Designated Use		Support	Causes (Pollutants or stressors)		Sources (Activities)		
Aquatic Life Support		Fully					
Fish Consumption		Not assessed					
Primary Contact (Recr)		Fully					
Assessment Method						Assessment ID	584
		240 Non-fixed station physical/chemical (conventional + toxicants)					
		422 Water column/ E. coli grab samples					
SEGMENT		T1010	Little Wildcat Creek - mainstem		6.77 miles	303(d) list	Listed 1996
Location				Discharge	HOWARD CO	Assessment Date	19991108
Assessment notes		Number 78 on 1998 303d list - Ref 31 03/01/1998. Site 23-078, 23-079, 23-083, 23-084 - Ref 72. Str pipes from West Middleton and Alto into Little Wildcat Creek, methods 130, 175 - Ref 78, W Stone.		Sampled between		19980814	and 19981022
Designated Use		Support	Causes (Pollutants or stressors)		Sources (Activities)		
Aquatic Life Support		Fully					
Fish Consumption		Not assessed					
Primary Contact (Recr)		Not supporting					
		Pathogens		S	Illicit connections/illegal hook-ups/dry weather flows S		
Assessment Method						Assessment ID	377
		130 Land use information and location of sources					
		175 Occurrence of conditions judged to cause impairment					
		240 Non-fixed station physical/chemical (conventional + toxicants)					
		422 Water column/ E. coli grab samples					
WATERBODY		INB0724	WEST HONEY CREEK - WALNUT FORK		14-digit HUA		05120107020040
SEGMENT		00	West Honey Creek		6.75 miles	303(d) list	No
Location				Discharge	HOWARD CO	Assessment Date	19991108
Assessment notes		Site 23-090 through 23-094 - Ref 72.		Sampled between		19980814	and 19981022
Designated Use		Support	Causes (Pollutants or stressors)		Sources (Activities)		
Aquatic Life Support		Fully					
Fish Consumption		Not assessed					
Primary Contact (Recr)		Not supporting					
		Pathogens		S	Nonpoint source/ unknown origin		
Assessment Method						Assessment ID	585
		240 Non-fixed station physical/chemical (conventional + toxicants)					
		422 Water column/ E. coli grab samples					

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN Wabash River

WATERBODY	INB0724	WEST HONEY CREEK - WALNUT FORK		14-digit HUA	05120107020040
SEGMENT	T1037	Walnut Fork	4.26 miles	303(d) list	No
Location			Discharge	HOWARD CO	Assessment Date
Assessment notes			Sampled between	and	
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)		
Aquatic Life Support	Not assessed				
Fish Consumption	Not assessed				
Primary Contact (Recr)	Not assessed				

WATERBODY	INB0725	WILDCAT CREEK - HONEY CREEK		14-digit HUA	05120107020050
SEGMENT	00	Honey Creek	9.81 miles	303(d) list	No
Location			Discharge	HOWARD CO	Assessment Date
Assessment notes	Site 23-086 through 23-089, 23-095 - Ref 72		Sampled between	and	
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)		
Aquatic Life Support	Fully				
Fish Consumption	Not assessed				
Primary Contact (Recr)					

Assessment Method

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

Assessment ID

586

SEGMENT	T1011	Wildcat Creek - mainstem	3.06 miles	303(d) list	Listed	1996
Location			Discharge	HOWARD CO	Assessment Date	19991108
Assessment notes	Number 97 on 1998 303d list - Ref 31; 03/01/1998. Fish consumption - Ref 35. ALUS and FISH source updated from U/S and D/S stream segments - ref 77; RECR updated ref 72; 11/8/99.		Sampled between	19980701	and	19981030
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)		378	
Aquatic Life Support	Not supporting					
		PCBs	H	Industrial Point Sources	H	
		PCBs	H	Contaminated Sediments	H	
Fish Consumption	Not supporting					
		PCBs	H	Industrial Point Sources	H	
		PCBs	H	Contaminated Sediments		
Primary Contact (Recr)						

Assessment Method

191 Physical/chemical data extrapolated from upstream or downstream waterbody

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

Assessment ID

378

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN Wabash River

WATERBODY INB0726 **WILDCAT CREEK - DEARINGER DITCH - SHANGHAI** **14-digit HUA** 05120107020060
SEGMENT 00 Dearinger Ditch and other tributaries 13.79 miles **303(d) list** No
Location **Discharge** HOWARD CO **Assessment Date** 19991108
Assessment notes Site 169-085 - Ref 72. **Sampled between** 19980814 and 19981022
Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**
 Aquatic Life Support Fully
 Fish Consumption Not assessed
 Primary Contact (Recr) Fully

Assessment Method

Assessment ID 587

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

SEGMENT T1012 Wildcat Creek - mainstem 5.72 miles **303(d) list** Listed 1996

Location **Discharge** HOWARD CO **Assessment Date** 19991108

Assessment notes Number 97 on 1998 303d list - Ref 31; ALUS non supp, FISH non supp, RECR not assess 03/01/1998; 1998 cycle. Fish consumption - Ref 35. Site 23-096, 23-097 Ref 72; Sediment site 568-98 U/S; 11/8/99. **Sampled between** 19980701 and 19981030

Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)** 379

Aquatic Life Support Not supporting

PCBs

H Industrial Point Sources

H

PCBs

H Contaminated Sediments

H

PCBs

H Source Unknown

H

Fish Consumption Not supporting

PCBs

H Industrial Point Sources

H

PCBs

H Contaminated Sediments

H

PCBs

H Source Unknown

H

Primary Contact (Recr) Fully

Assessment Method

Assessment ID 379

191 Physical/chemical data extrapolated from upstream or downstream waterbody

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

WATERBODY INB0727 **WILDCAT CREEK - PETES RUN** **14-digit HUA** 05120107020070

SEGMENT 00 Petes Run and other tributaries 11.89 miles **303(d) list** No

Location **Discharge** HOWARD CO **Assessment Date** 19991130

Assessment notes Site 23-098 - Ref 72. **Sampled between** 19980803 and 19981022

Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**

Aquatic Life Support Fully

Fish Consumption Not assessed

Primary Contact (Recr) Fully

Assessment Method

Assessment ID 588

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN

Wabash River

WATERBODY	INB0727	WILDCAT CREEK - PETES RUN	14-digit HUA	05120107020070
SEGMENT	T1013	Wildcat - mainstem	1.73 miles	303(d) list Listed 1996
Location	Discharge HOWARD CO Assessment Date 19991108			
Assessment notes	Number 97 on 1998 303d list - Ref 31; 03/01/1998. Fish consumption - Ref 35. Site 23-03, 23-099 Ref 72. PCBs in upstream sediments Ref 76. ALUS causes revised 11/8/99. Sampled between 19980803 and 19981022			
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	589
Aquatic Life Support	Not supporting	PCBs	H Industrial Point Sources	H
		PCBs	H Contaminated Sediments	H
		PCBs	H Source Unknown	H
Fish Consumption	Not supporting	PCBs	H Industrial Point Sources	H
		PCBs	H Contaminated Sediments	H
		PCBs	H Source Unknown	H
Primary Contact (Recr)	Not supporting	Pathogens	S Nonpoint source/ unknown origin	S
Assessment Method		Assessment ID		589
191 Physical/chemical data extrapolated from upstream or downstream waterbody				
240 Non-fixed station physical/chemical (conventional + toxicants)				
421 Water column/ five E. coli samples in 30 days				
422 Water column/ E. coli grab samples				
SEGMENT	T1039	Unnamed tributaries	3.26 miles	303(d) list No
Location	Discharge CARROLL CO Assessment Date			
Assessment notes	Sampled between and			
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Not assessed			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Not assessed			

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN Wabash River

WATERBODY	INB0727	WILDCAT CREEK - PETES RUN	14-digit HUA	05120107020070
SEGMENT	T1040	Wildcat Creek - mainstem	1.57 miles	303(d) list Listed 1996
Location		Discharge	CARROLL CO	Assessment Date 19991108
Assessment notes	Number 97 on 1998 303d list - Ref 31; 03/01/1998. Fish consumption - Ref 35. Site 23-100 Ref 72. PCBs in upstream sediments Ref 76. ALUS causes revised 11/8/99.		Sampled between	19980814 and 19981022
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	590
Aquatic Life Support	Not supporting	PCBs	H Industrial Point Sources	H
		PCBs	H Contaminated Sediments	H
		PCBs	H Source Unknown	H
Fish Consumption	Not supporting	PCBs	H Industrial Point Sources	H
		PCBs	H Contaminated Sediments	H
		PCBs	H Source Unknown	H
Primary Contact (Recr)	Fully			
Assessment Method		Assessment ID		590
	191 Physical/chemical data extrapolated from upstream or downstream waterbody			
	240 Non-fixed station physical/chemical (conventional + toxicants)			
	422 Water column/ E. coli grab samples			

WATERBODY	INB0728	WILDCAT CREEK - HURRICANE CREEK	14-digit HUA	05120107020080
SEGMENT	00	WILDCAT CREEK - HURRICANE CREEK	9.43 miles	303(d) list No
Location		Discharge	HOWARD CO	Assessment Date
Assessment notes		Sampled between		and
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Not assessed			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Not assessed			

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN

Wabash River

WATERBODY	INB0728	WILDCAT CREEK - HURRICANE CREEK	14-digit HUA	05120107020080
SEGMENT	E1014	Wildcat Creek - mainstem	11 miles	303(d) list Listed 1996
Location		Discharge	HOWARD CO	Assessment Date 19991108
Assessment notes	Number 97 on 1998 303d list - Ref 31; 03/01/1998. Fish consumption - Ref 35. Site 23-101 through 23-104, 169-017, WC-32, 980825101, sediment at 23-103 - Ref 72, 73, 74, 76; ALUS causes revised ;11/8/99.		Sampled between	19960101 and 19981231
<u>Designated Use</u>	<u>Support</u>	<u>Causes (Pollutants or stressors)</u>	<u>Sources (Activities)</u>	381
Aquatic Life Support	Not supporting	PCBs	H Contaminated Sediments	H
		PCBs	H Source Unknown	H
Fish Consumption	Not supporting	PCBs	H Contaminated Sediments	H
		PCBs	H Source Unknown	H
Primary Contact (Recr)	Fully			
<u>Assessment Method</u>			<u>Assessment ID</u>	381
	240 Non-fixed station physical/chemical (conventional + toxicants)			
	322 RBP I or II or equivalent benthos surveys			
	323 Macroinvertebrate community assessment, mIBI family level			
	376 Qualitative Habitat Evaluation Index, QHEI; by professional			
	422 Water column/ E. coli grab samples			
	730 Rotating basin probabilistic water chemistry, fish IBI, QHEI, mIBI			

WATERBODY	INB0729	WILDCAT CREEK - CUTLER TO OWASCO	14-digit HUA	05120107020090
SEGMENT	00	Unnamed tributaries	8.58 miles	303(d) list No
Location		Discharge	CARROLL CO	Assessment Date 19991130
Assessment notes	Site 23-105A; RECR not enough data; - ref 72.		Sampled between	19980814 and 19981022
<u>Designated Use</u>	<u>Support</u>	<u>Causes (Pollutants or stressors)</u>	<u>Sources (Activities)</u>	
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Not assessed			
<u>Assessment Method</u>			<u>Assessment ID</u>	591
	240 Non-fixed station physical/chemical (conventional + toxicants)			
	422 Water column/ E. coli grab samples			

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN

Wabash River

WATERBODY	INB0729	WILDCAT CREEK - CUTLER TO OWASCO	14-digit HUA	05120107020090
SEGMENT	E1015	Wildcat Creek - mainstem	8.92 miles	303(d) list Listed 1996
Location			Discharge CARROLL CO	Assessment Date 19991108
Assessment notes	Number 97 on 1998 303d list - Ref 31; 03/01/1998. Fish consumption - Ref 35. Site 23-04, 23-105, 23-106; ALUS causes revised; 11/8/99. Source - W Stone 11/30/99.		Sampled between	19980803 and 19981022
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	382
Aquatic Life Support	Not supporting	PCBs	H Contaminated Sediments	H
		PCBs	H Source Unknown	H
Fish Consumption	Not supporting	PCBs	H Contaminated Sediments	H
		PCBs	H Source Unknown	H
Primary Contact (Recr)	Not supporting	Pathogens	S Onsite Wastewater Systems (Septic Tanks)	S
		Pathogens	S Nonpoint source/ unknown origin	S
Assessment Method			Assessment ID	382
	240 Non-fixed station physical/chemical (conventional + toxicants)			
	421 Water column/ five E. coli samples in 30 days			
	422 Water column/ E. coli grab samples			

WATERBODY	INB072A	WILDCAT CREEK - PYRMONT	14-digit HUA	05120207020100
SEGMENT	00	Tributaries of Wildcat Creek	16.67 miles	303(d) list No
Location			Discharge TIPPECANOE CO	Assessment Date 19991130
Assessment notes	Site 23-107 through 23-110 on Wildcat Cr; 0/4 bacteria samples substantially above single sample maximum - Ref 72; 11/8/99.		Sampled between	19980814 and 19980814
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Fully			
Assessment Method			Assessment ID	592
	191 Physical/chemical data extrapolated from upstream or downstream waterbody			
	240 Non-fixed station physical/chemical (conventional + toxicants)			
	422 Water column/ E. coli grab samples			

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN Wabash River

WATERBODY	INB072A	WILDCAT CREEK - PYRMONT	14-digit HUA	05120207020100
SEGMENT	E1016	Wildcat Creek - mainstem	15.38 miles	303(d) list Listed 1996
Location	Discharge TIPPECANOE CO Assessment Date 19991108			
Assessment notes	Number 97 on 1998 303d list - Ref 31; 03/01/1998. Fish consumption - Ref 35. Site 23-107 through 23-110; sites 23-108 and 23-110 with sediment; ALUS causes revised; Ref 72; 11/8/99. Sampled between 19980814 and 19981022			
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	383
Aquatic Life Support	Not supporting	PCBs	M Contaminated Sediments	H
		PCBs	M Source Unknown	M
Fish Consumption		PCBs	M Contaminated Sediments	H
		PCBs	M Source Unknown	M
Primary Contact (Recr)	Fully			
Assessment Method				Assessment ID 383
240 Non-fixed station physical/chemical (conventional + toxicants)				
250 Chemical monitoring of sediments				
422 Water column/ E. coli grab samples				

WATERBODY	INB0731	MIDDLE FORK WILDCAT CREEK - HARNESS DITCH	14-digit HUA	05120207030010
SEGMENT	00	Whiteman Ditch - Harness Ditch	9.51 miles	303(d) list No
Location	Discharge CLINTON CO Assessment Date			
Assessment notes	Also Carroll and Howard Counties. Sampled between and			
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Not assessed			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Not assessed			
SEGMENT	T1041	Wildcat Creek, Middle Fork and other tributaries	10.52 miles	303(d) list No
Location	Discharge CLINTON CO Assessment Date 19991130			
Assessment notes	Site 42-163, 42-164, 43-165; RECR no more than 1/3 slightly Sampled between 19980814 and 19981022			
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)				
Assessment Method				Assessment ID 593
240 Non-fixed station physical/chemical (conventional + toxicants)				
422 Water column/ E. coli grab samples				

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN

Wabash River

WATERBODY INB0732 **MIDDLE FORK WILDCAT CREEK - ROBERTSON BRANCH** **14-digit HUA** 05120207030020

SEGMENT 00 Wildcat Creek Middle Fork - Robertson Br - unnamed tributary 11.77 miles **303(d) list** No

Location Middle Fork Wildcat Creek below Harness ditch to fourth tributary (on left bank U/S of CR 200E), Robertson Ditch, and second unnamed tributary (on left bank with confluence just U/S of CR 300E). Located on RF3 overlay of Raster maps using ArcView 3.1. **Discharge** CARROLL CO **Assessment Date** 19991108

Assessment notes Site 42-166, 42-167 Ref 72.

Sampled between 19980814 and 19981022

Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**

Aquatic Life Support Fully

Fish Consumption Not assessed

Primary Contact (Recr) Fully

Assessment Method

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

Assessment ID 597

SEGMENT T1042 Wildcat Creek, Middle Fork - mainstem 2.46 miles **303(d) list** No

Location Middle Fork Wildcat Creek from fourth tributary (on left bank U/S of CR 200E) to confluence with Robertson Branch. Located on RF3 overlay of Raster maps using ArcView 3.1. **Discharge** CARROLL CO **Assessment Date** 19991130

Assessment notes Site 42-168 Ref 72. RECR revised - one sample 11/30/99.

Sampled between 19980814 and 19981022

Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**

Aquatic Life Support Fully

Fish Consumption Not assessed

Primary Contact (Recr) Partial

Pathogens

M Nonpoint source/ unknown origin

M

Assessment Method

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

Assessment ID 596

SEGMENT T1043 Scofield Ditch and unnamed tributaries 8.23 miles **303(d) list** No

Location Scofield Ditch and three unnamed tributaries. Located on RF3 overlay of Raster maps using ArcView 3.1. **Discharge** CARROLL CO **Assessment Date**

Assessment notes

Sampled between and

Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**

Aquatic Life Support Not assessed

Fish Consumption Not assessed

Primary Contact (Recr) Not assessed

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN

Wabash River

WATERBODY INB0733 **MIDDLE FORK WILDCAT CREEK - ROSSVILLE** **14-digit HUA** 05120207030030
SEGMENT 00 Middle Fork Willcat Creek and other tributaries 13.01 miles **303(d) list** No

Location **Discharge** CLINTON CO **Assessment Date** 19991108

Assessment notes Site 42-170 through 42-172 and 42-174 through 42-175 - Ref 72. **Sampled between** 19980814 and 19981022

Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**
 Aquatic Life Support Fully

Fish Consumption Not assessed

Primary Contact (Recr) Fully

Assessment Method

Assessment ID 599

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

SEGMENT T1027 Silverthorn Branch downstream of Rossville STP 0.67 miles **303(d) list** No

Location **Discharge** CLINTON CO **Assessment Date** 19990830

Assessment notes Identify as limited use 08/30/1999. Site 42-173- Ref 72; ALUS - partial support 11/8/99. Limited use waters must meet RECR standards. Segment does not support RECR; therefore, segment does not support LMTD use. **Sampled between** 19980814 and 19981022

Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)** 384
 Aquatic Life Support Not attainable

Salinity/TDS/chlorides S Municipal Point Sources M

Fish Consumption Not assessed

Limited Use Not supporting

Pathogens M Municipal Point Sources M

Pathogens M Combined Sewer Overflow M

Primary Contact (Recr) Not supporting

Pathogens M Municipal Point Sources M

Pathogens M Combined Sewer Overflow M

Assessment Method

Assessment ID 384

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

SEGMENT T1044 Unnamed tributary - Deiter Ditch 1.05 miles **303(d) list** No

Location Unnamed tributary on rt bank between Well ditch and Campbells Run. Deiter ditch is a tributary of unnamed tributary. **Discharge** CLINTON CO **Assessment Date**

Assessment notes **Sampled between** and

Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**
 Aquatic Life Support Not assessed

Fish Consumption Not assessed

Primary Contact (Recr) Not assessed

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN

Wabash River

WATERBODY	INB0734	CAMPBELLS RUN - HEADWATERS	14-digit HUA	05120207030040
SEGMENT	00	Campbells Run and tributaries	303(d) list	No
Location			Discharge	CLINTON CO
Assessment notes	Site 42-177, 42-178 Ref 72.		Assessment Date	19991108
Designated Use	Support	Causes (Pollutants or stressors)	Sampled between	19980814 and 19981022
Aquatic Life Support	Fully		Sources (Activities)	
Fish Consumption	Not assessed			
Primary Contact (Recr)	Fully			

Assessment Method

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

Assessment ID

600

SEGMENT	T1045	Campbells Run - mainstem	2.5 miles	303(d) list	No
Location		Campbells Run from unnamed tributary confluence on right bank in SW 1/4 of Section 29, Owen Township, to HUA discharge.	Discharge	CLINTON CO	Assessment Date
Assessment notes	Site 42-179, 169-086, 42-180; RECR: 1/3 bacteria samples > WQS; Ref 72.		Sampled between	19980814 and 19981022	
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)		
Aquatic Life Support	Fully				
Fish Consumption	Not assessed				
Primary Contact (Recr)	Partial				

Pathogens

S Nonpoint source/ unknown origin

S

Assessment Method

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

Assessment ID

601

WATERBODY	INB0735	CAMPBELLS RUN - CRIPE RUN	14-digit HUA	05120207030050
SEGMENT	00	CAMPBELLS RUN - CRIPE RUN	303(d) list	No
Location			Discharge	CLINTON CO
Assessment notes	Site 42-182, 42-183 Ref 72.		Assessment Date	19991108
Designated Use	Support	Causes (Pollutants or stressors)	Sampled between	19980814 and 19981022
Aquatic Life Support	Fully		Sources (Activities)	
Fish Consumption	Not assessed			
Primary Contact (Recr)	Fully			

Assessment Method

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

Assessment ID

603

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN

Wabash River

WATERBODY	INB0735	CAMPBELLS RUN - CRIPE RUN	14-digit HUA	05120207030050
SEGMENT	T1046	Campbells Run - mainstem	1.94 miles	303(d) list No
Location	Campbells Run from HUA inlet to first unnamed tributary confluence (on left bank) in SE 1/4 of Section 22, T23N, R2W, N of SR26.		Discharge CLINTON CO	Assessment Date 19991108
Assessment notes	Site 42-181 Ref 72; Rossville lift station malfunction - Surveys field notes.		Sampled between	19980814 and 19981022
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	604
Aquatic Life Support	Partial	Organic enrichment/Low DO	S Collection System Failure	S
Fish Consumption	Not assessed			
Primary Contact (Recr)	Partial	Pathogens	S Collection System Failure	S
Assessment Method			Assessment ID	604
	175 Occurrence of conditions judged to cause impairment			
	240 Non-fixed station physical/chemical (conventional + toxicants)			
	422 Water column/ E. coli grab samples			

WATERBODY	INB0736	MIDDLE FORK WILDCAT CREEK - HOG RUN	14-digit HUA	05120207030060
SEGMENT	00	MIDDLE FORK WILDCAT CREEK - HOG RUN	21.11 miles	303(d) list No
Location			Discharge TIPPECANOE CO	Assessment Date 19991108
Assessment notes	Site 42-184 through 42-186, WCM-7 - Ref 72.		Sampled between	19980301 and 19981231
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Fully			
Assessment Method			Assessment ID	605
	230 Fixed station physical/chemical (conventional plus toxic pollutants)			
	240 Non-fixed station physical/chemical (conventional + toxicants)			
	422 Water column/ E. coli grab samples			

WATERBODY	INB0737	MIDDLE FORK WILDCAT CREEK - PETTIT	14-digit HUA	05120207030070
SEGMENT	00	MIDDLE FORK WILDCAT CREEK - PETTIT	13.22 miles	303(d) list No
Location			Discharge TIPPECANOE CO	Assessment Date 19991108
Assessment notes	Site 42-187, 42-188, 42-01 Ref 72.		Sampled between	19980803 and 19981022
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Not supporting	Pathogens	S Nonpoint source/ unknown origin	S
Assessment Method			Assessment ID	606
	240 Non-fixed station physical/chemical (conventional + toxicants)			
	421 Water column/ five E. coli samples in 30 days			
	422 Water column/ E. coli grab samples			

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN Wabash River

WATERBODY	INB0741	SOUTH FORK WILDCAT CREEK - TALBERT DITCH	14-digit HUA	05120107040010
SEGMENT	00	SOUTH FORK WILDCAT CREEK - TALBERT DITCH	9.69 miles	303(d) list No
Location		Discharge CLINTON CO	Assessment Date	
Assessment notes		Sampled between	and	
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Not assessed			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Not assessed			

SEGMENT	T1017	South Fork Wildcat Creek - mainstem	4.94 miles	303(d) list Listed 1992
Location		Discharge CLINTON CO	Assessment Date	19991108
Assessment notes	Number 84 on 1998 303d list - Ref 31; 03/01/1998. ALUS revised; cyanide was from downstream of Prairie Creek at WCS-34; does not apply to this HUA - JL McFall 11/8/99	Sampled between	and	
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Not assessed			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Not assessed			

WATERBODY	INB0742	SOUTH FORK WILDCAT CREEK - MICHIGANTOWN	14-digit HUA	05120107040020
SEGMENT	00	Jenkins Ditch	2.15 miles	303(d) list No
Location		Discharge CLINTON CO	Assessment Date	
Assessment notes		Sampled between	and	
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Fully			

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN

Wabash River

WATERBODY	INB0742	SOUTH FORK WILDCAT CREEK - MICHIGANTOWN		14-digit HUA	05120107040020
SEGMENT	T1018	South fork Wildcat Creek - mainstem	9.28 miles	303(d) list	Listed 1992
Location			Discharge	CLINTON CO	Assessment Date 19991108
Assessment notes	Number 84 on 1998 303d list - Ref 31; 3/1/98. Site 23-113 through 23-116; 23-116 with sediment - Ref 72; ALUS revised; cyanide is from Prairie Creek downstream, not here; 11/8/99.		Sampled between	19980701	and 19981030
<u>Designated Use</u>	<u>Support</u>	<u>Causes (Pollutants or stressors)</u>		<u>Sources (Activities)</u>	
Aquatic Life Support	Fully				
Fish Consumption	Not assessed				
Primary Contact (Recr)	Fully				
<u>Assessment Method</u>		<u>Assessment ID</u>			386
240 Non-fixed station physical/chemical (conventional + toxicants)					
250 Chemical monitoring of sediments					
422 Water column/ E. coli grab samples					

SEGMENT	T1047	Unnamed tributary basin		4.47 miles	303(d) list	No
Location			Discharge	CLINTON CO	Assessment Date	19991108
Assessment notes	Site 169-047 - Ref 72, 73; DELTs: tumors noted - BSS field notes.			Sampled between	19980701	and 19981030
Designated Use	Support	Causes (Pollutants or stressors)		Sources (Activities)		607
Aquatic Life Support	Not supporting	Biotic community status		H	Nonpoint source/ unknown origin	
Fish Consumption	Not assessed					
Primary Contact (Recr)	Not assessed					
Assessment Method				Assessment ID		607
240 Non-fixed station physical/chemical (conventional + toxicants)						
332 Fish community assessment, IBI						
376 Qualitative Habitat Evaluation Index, QHEI; by professional						
422 Water column/ E. coli grab samples						

WATERBODY		INB0743	PRAIRIE CREEK (CLINTON)		14-digit HUA	05120107040030
SEGMENT	00	PRAIRIE CREEK (CLINTON)			21.14 miles	303(d) list No
Location					Discharge	CLINTON CO
Assessment notes	Site 23-117 through 23-126; no site 23-118; sediment at site 23-126 - Ref 72. RECR: 2/9 not substantially above standard - Ref 44.				Assessment Date	19991108
					Sampled between	11980701 and 19981030
<u>Designated Use</u>	<u>Support</u>	<u>Causes (Pollutants or stressors)</u>			<u>Sources (Activities)</u>	
Aquatic Life Support	Fully					
Fish Consumption	Not assessed					
Primary Contact (Recr)	Fully					
<u>Assessment Method</u>					<u>Assessment ID</u>	608
240 Non-fixed station physical/chemical (conventional + toxicants)						
250 Chemical monitoring of sediments						
422 Water column/ E. coli grab samples						

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN Wabash River

WATERBODY	INB0744	SOUTH FORK WILDCAT CREEK - BLINN DITCH	14-digit HUA	05120107040040
SEGMENT	T1019	South Fork Wildcat Creek - mainstem	8.57 miles	303(d) list Listed 1992
Location		Discharge	CLINTON CO	Assessment Date 19991108
Assessment notes	Number 84 on 1998 303d list - Ref 31; 3/1/98. Site 23-127 through 23-135, WCS-34, 23-06; sediment at 23-127 and 23-133 - Ref 72; 11/8/99.		Sampled between	19960101 and 19981231
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	387
Aquatic Life Support	Not supporting	Cyanide	S Nonpoint source/ unknown origin	S
		Cyanide	S Source Unknown	S
Fish Consumption	Not assessed			
Primary Contact (Recr)	Not supporting	Pathogens	S Nonpoint source/ unknown origin	S
Assessment Method			Assessment ID	387
230	Fixed station physical/chemical (conventional plus toxic pollutants)			
240	Non-fixed station physical/chemical (conventional + toxicants)			
250	Chemical monitoring of sediments			
421	Water column/ five E. coli samples in 30 days			
422	Water column/ E. coli grab samples			

WATERBODY	INB0745	KILMORE CREEK - SHANTY CREEK	14-digit HUA	05120107040050
SEGMENT	00	KILMORE CREEK - Shanty Creek	11.48 miles	303(d) list No
Location		Discharge	CLINTON CO	Assessment Date 19991108
Assessment notes	Site 23-137 - Ref 72.		Sampled between	19980814 and 19981022
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Fully			
Assessment Method			Assessment ID	609
240	Non-fixed station physical/chemical (conventional + toxicants)			
422	Water column/ E. coli grab samples			

WATERBODY	INB0746	SWAMP CREEK	14-digit HUA	05120107040060
SEGMENT	00	SWAMP CREEK	14.12 miles	303(d) list No
Location		Discharge	CLINTON CO	Assessment Date 19991130
Assessment notes	Site 23-136 - Ref 72.		Sampled between	19980814 and 19981022
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Fully			
Assessment Method			Assessment ID	610
240	Non-fixed station physical/chemical (conventional + toxicants)			
422	Water column/ E. coli grab samples			

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN

Wabash River

WATERBODY	INB0747	KILMORE CREEK - STUMP DITCH	14-digit HUA	05120107040070
SEGMENT	00	KILMORE CREEK - STUMP DITCH	11.67 miles	303(d) list No
Location			Discharge	CLINTON CO
Assessment notes	Site 23-138 and 23-140 - Ref 72.		Assessment Date	19991108
Designated Use	<u>Support</u>	<u>Causes (Pollutants or stressors)</u>	Sampled between	19980814 and 19981022
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Fully			

Assessment Method

Assessment ID

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

WATERBODY	INB0748	KILMORE CREEK - SR 29 TO KILMORE	14-digit HUA	05120107040080
SEGMENT	00	KILMORE CREEK - SR 29 TO KILMORE	7.18 miles	303(d) list No
Location			Discharge	CLINTON CO
Assessment notes	Site 23-142 - Ref 72.		Assessment Date	19991108
Designated Use	<u>Support</u>	<u>Causes (Pollutants or stressors)</u>	Sampled between	19980814 and 19981022
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Fully			

Assessment Method

Assessment ID

612

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

WATERBODY	INB0749	KILMORE CREEK - BOYLES DITCH	14-digit HUA	05120107040090
SEGMENT	00	KILMORE CREEK - BOYLES DITCH	14.37 miles	303(d) list No
Location			Discharge	CLINTON CO
Assessment notes	Site 23-143, 23-05 - Ref 72.		Assessment Date	19991108
Designated Use	<u>Support</u>	<u>Causes (Pollutants or stressors)</u>	Sampled between	19980803 and 19981022
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Not supporting			

Pathogens

S Nonpoint source/ unknown origin

S

Assessment Method

Assessment ID

240 Non-fixed station physical/chemical (conventional + toxicants)

421 Water column/ five E. coli samples in 30 days

422 Water column/ E. coli grab samples

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN

Wabash River

WATERBODY INB074A **SOUTH FORK WILDCAT CREEK - SPRING CREEK - LICK RUN** **14-digit HUA** 05120107040100

SEGMENT 00 Spring Creek - Lick Run 12.48 miles **303(d) list** No
Location Includes Heavilon Ditch D/S of CR 450W. **Discharge** CLINTON CO **Assessment Date** 19991130
Assessment notes Site 23-145, 23-146, 23-14A, 23-148, 23-149 - Ref 72; 980821101 on Spring Creek - Ref 74; 11/8/99. **Sampled between** 19980814 and 19981022
Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**
 Aquatic Life Support Fully
 Fish Consumption Not assessed
 Primary Contact (Recr) Fully

Assessment Method

- 240 Non-fixed station physical/chemical (conventional + toxicants)
- 323 Macroinvertebrate community assessment, mIBI family level
- 422 Water column/ E. coli grab samples

Assessment ID

614

SEGMENT T1020 South Fork Wildcat Creek - mainstem 1.04 miles **303(d) list** Listed 1992
Location **Discharge** CLINTON CO **Assessment Date** 19991130
Assessment notes Number 84 on 1998 303d list - Ref 31; 03/01/1998. Site 23-135 U/S, 23-150 D/S - Ref 72. ALUS updated; cyanide impairment is upstream; 11/8/99. **Sampled between** 19980803 and 19981022

Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**
 Aquatic Life Support Fully

Fish Consumption Not assessed

Primary Contact (Recr) Not supporting

Pathogens

S Nonpoint source/ unknown origin

S

Assessment Method

- 191 Physical/chemical data extrapolated from upstream or downstream waterbody
- 240 Non-fixed station physical/chemical (conventional + toxicants)
- 421 Water column/ five E. coli samples in 30 days
- 422 Water column/ E. coli grab samples

Assessment ID

388

SEGMENT T1048 Heavilon Ditch - headwater 3.14 miles **303(d) list** No
Location Heavilon Ditch U/S of CR 450W, in Section 1, approximately 0.9 miles north of Jefferson. **Discharge** CLINTON CO **Assessment Date** 19991130
Assessment notes Site 23-147 - Ref 72; 11/8/99. Str pipe from Jefferson - W Stone 11/30/99. **Sampled between** 19980814 and 19981022

Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**
 Aquatic Life Support Not supporting

Unionized Ammonia

M Illicit connections/illegal hook-ups/dry weather flows M

Organic enrichment/Low DO

S Illicit connections/illegal hook-ups/dry weather flows M

Fish Consumption Not assessed

Primary Contact (Recr) Partial

Pathogens

S Illicit connections/illegal hook-ups/dry weather flows M

Assessment Method

- 175 Occurrence of conditions judged to cause impairment
- 240 Non-fixed station physical/chemical (conventional + toxicants)
- 422 Water column/ E. coli grab samples

Assessment ID

615

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN Wabash River

WATERBODY INB074B **SOUTH FORK WILDCAT CREEK - MULBERRY** **14-digit HUA** 05120107040110
SEGMENT 00 **Unnamed tributaries near Mulberry** **4.6 miles** **303(d) list** **No**

Location Three tributaries below tributary confluence with South Fork Wildcat Creek about 1/4 mile U/S of CR 9B East in NW 1/4 of NW 1/4 of Section 25, Seffield Twp, Tippecanoe County. **Discharge** TIPPECANOE CO **Assessment Date**

Assessment notes **Sampled between** and

Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**

Aquatic Life Support Not assessed

Fish Consumption Not assessed

Primary Contact (Recr) Not assessed

SEGMENT T1021 **South Fork Wildcat Creek - mainstem** **9.84 miles** **303(d) list** **Listed** **1992**

Location **Discharge** TIPPECANOE CO **Assessment Date** 19991108

Assessment notes Number 84 on 1998 303d list - Ref 31; 3/1/98. Site 23-150 to 23-152; ALUS revised NS to SUPP; Cause cyanide less than WQS - Ref 72; 11/8/99. **Sampled between** 19980814 and 19981022

Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**

Aquatic Life Support Fully

Fish Consumption Not assessed

Primary Contact (Recr) Fully

Assessment Method

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

Assessment ID

389

SEGMENT T1049 **Unnamed tributaries - upper reaches** **5.89 miles** **303(d) list** **No**

Location Four tributaries above and including tributary confluence with South Fork Wildcat Creek about 1/4 mile U/S of CR 9B East in NW 1/4 of NW 1/4 of Section 25, Seffield Twp, Tippecanoe County. **Discharge** CLINTON CO **Assessment Date** 19991108

Assessment notes Site 23-150 to 23-152 on SF Wildcat Creek - Ref 72. **Sampled between** 19980814 and 19981022

Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**

Aquatic Life Support Fully

Fish Consumption Not assessed

Primary Contact (Recr) Fully

Assessment Method

191 Physical/chemical data extrapolated from upstream or downstream waterbody

Assessment ID

616

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN Wabash River

WATERBODY	INB074C	LAURAMIE CREEK	14-digit HUA	05120107040120
SEGMENT	00	LAURAMIE CREEK	18.08 miles	303(d) list No
Location			Discharge	TIPPECANOE CO
Assessment notes	Site 23-154 to 23-157 - Ref 72.		Assessment Date	19991108
			Sampled between	19980814 and 19981022
<u>Designated Use</u>	<u>Support</u>	<u>Causes (Pollutants or stressors)</u>	<u>Sources (Activities)</u>	
Aquatic Life Support	Fully			
Fish Consumption	Not assessed			
Primary Contact (Recr)	Not supporting			
	Pathogens	M	Nonpoint source/ unknown origin	

Assessment Method

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

Assessment ID

WATERBODY	INB074D	SOUTH FORK WILDCAT CREEK DAYTON		14-digit HUA	05120107040130
SEGMENT	00	Tributaries of SF Wildcat Creek near Dayton		12.77 miles	303(d) list No
Location			Discharge	TIPPECANOE CO	Assessment Date
Assessment notes			Sampled between	and	
<u>Designated Use</u>	<u>Support</u>	<u>Causes (Pollutants or stressors)</u>		<u>Sources (Activities)</u>	
Aquatic Life Support	Not assessed				
Fish Consumption	Not assessed				
Primary Contact (Recr)	Not assessed				

SEGMENT	E1022	South Fork Wildcat Creek - mainstem	6.45 miles	303(d) list	No
Location	Outstanding state resource beginning in N1/2 of NW1/4 of Section 10; approximately 0.74 miles downstream of unnamed tributary on right to HUA outlet. Approximate UTM's 521,495.82 4,469,044.83		Discharge	TIPPECANOE CO	Assessment Date 19991108
Assessment notes	Number 84 on 1998 303d list - Ref 31; 03/01/1998. Site 23-160, 169-056, 23-07 - Ref 72, 73, 74. 11/8/99.		Sampled between	19980803	and 19981022
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)		
Aquatic Life Support	Fully				
Fish Consumption	Not assessed				
Primary Contact (Recr)	Not supporting				

Assessment Method

240 Non-fixed station physical/chemical (conventional + toxicants)

323 Macroinvertebrate community assessment, mIBI family level

332 Fish community assessment, IBI

376 Qualitative Habitat Evaluation Index, QHEI; by professional

421 Water column/ five E. coli samples in 30 days

422 Water column/ E. coli grab samples

730 Rotating basin probabilistic water chemistry, fish IBI, QHEI, mIBI

Assessment ID

393

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN Wabash River

WATERBODY	INB074D	SOUTH FORK WILDCAT CREEK - DAYTON		14-digit HUA	05120107040130
SEGMENT	T1029	South Fork Wildcat Creek - mainstem	3.35 miles	303(d) list	No
Location			Discharge	TIPPECANOE CO	Assessment Date 19991108
Assessment notes	Number 84 on 1998 303d list - Ref 31; 03/01/1998. Site 23-158, 23-159, - Ref 72. 11/8/99.		Sampled between	19980814	and 19981022
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)		
Aquatic Life Support	Fully				
Fish Consumption	Not assessed				
Primary Contact (Recr)	Fully				
Assessment Method			Assessment ID	394	
240 Non-fixed station physical/chemical (conventional + toxicants)					
422 Water column/ E. coli grab samples					
SEGMENT	T1050	Unnamed tributary basin	9.94 miles	303(d) list	No
Location			Discharge	TIPPECANOE CO	Assessment Date 19991108
Assessment notes	Site 169-066 - Ref 72, 73, 74.		Sampled between	19980814	and 19981022
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)		
Aquatic Life Support	Not supporting		618		
		Biotic community status	M Nonpoint source/ unknown origin		
Fish Consumption	Not assessed				
Primary Contact (Recr)	Not assessed				
Assessment Method			Assessment ID	618	
240 Non-fixed station physical/chemical (conventional + toxicants)					
323 Macroinvertebrate community assessment, mIBI family level					
332 Fish community assessment, IBI					
376 Qualitative Habitat Evaluation Index, QHEI; by professional					
730 Rotating basin probabilistic water chemistry, fish IBI, QHEI, mIBI					
WATERBODY	INB074E	SOUTH FORK WILDCAT CREEK - CARY CAMP		14-digit HUA	05120107040140
SEGMENT	00	SOUTH FORK WILDCAT CREEK - CARY CAMP	1.47 miles	303(d) list	No
Location			Discharge	TIPPECANOE CO	Assessment Date 19991108
Assessment notes	Site 23-162 - Ref 72.		Sampled between	19980814	and 19981022
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)		
Aquatic Life Support	Fully				
Fish Consumption	Not assessed				
Primary Contact (Recr)	Fully				
Assessment Method			Assessment ID	619	
191 Physical/chemical data extrapolated from upstream or downstream waterbody					

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

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BASIN

Wabash River

WATERBODY INB074E **SOUTH FORK WILDCAT CREEK - CARY CAMP** **14-digit HUA** 05120107040140
SEGMENT E1023 South Fork Wildcat Creek - mainstem 3.76 miles **303(d) list** No
Location **Discharge** TIPPECANOE CO **Assessment Date** 19991108
Assessment notes Number 84 on 1998 303d list - Ref 31; 03/01/1998. Cyanide **Sampled between** 19980814 and 19981022
 results meet standard 11/8/99.
Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**
 Aquatic Life Support Fully
 Fish Consumption Not assessed
 Primary Contact (Recr)

Assessment Method

240 Non-fixed station physical/chemical (conventional + toxicants)

422 Water column/ E. coli grab samples

Assessment ID

392

WATERBODY INB0751 **WILDCAT CREEK - DRY RUN** **14-digit HUA** 05120107050010
SEGMENT 00 Dry Run and other tributaries 10.31 miles **303(d) list** No
Location **Discharge** TIPPECANOE CO **Assessment Date**
Assessment notes **Sampled between** and
Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**
 Aquatic Life Support Not assessed
 Fish Consumption Not assessed
 Primary Contact (Recr) Not assessed

SEGMENT E1024 Wildcat Creek - mainstem - OSRW 2.88 miles **303(d) list** Listed 1996
Location Upstream of USGS gaging station 03335000 near Lafayette. **Discharge** TIPPECANOE CO **Assessment Date** 19991108
Assessment notes Number 97 on 1998 303d list - Ref 31; 03/01/1998. Fish consumption - Ref 35. Site 23-111, 23-08 - Ref 72. ALUS revised; lead, ammonia, nutrients, dissolved oxygen meet standard 11/8/99. **Sampled between** 19980803 and 19981022
Designated Use **Support** **Causes (Pollutants or stressors)** **Sources (Activities)**
 Aquatic Life Support Fully

Fish Consumption

PCBs

M Source Unknown

M

Primary Contact (Recr) Not supporting

Pathogens

S Nonpoint source/ unknown origin

S

Assessment Method

240 Non-fixed station physical/chemical (conventional + toxicants)

421 Water column/ five E. coli samples in 30 days

422 Water column/ E. coli grab samples

Assessment ID

390

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

WATERBODY ASSESSMENTS

The contents of this report are subject to revision and update. Check for Indiana water quality updates at www.state.in.us/idem/owm/planbr/wqs/quality/

BASIN Wabash River

WATERBODY	INB0751	WILDCAT CREEK - DRY RUN	14-digit HUA	05120107050010
SEGMENT	T1028	Wildcat Creek - mainstem	4.82 miles	303(d) list Listed 1996
Location	Downstream on USGS gage 03335000 near Lafayette.		Discharge	TIPPECANOE CO Assessment Date 19991108
Assessment notes	97 on 1998 303d list - Ref 31; 03/01/1998. Fish consumption - Ref 35. Site 23-112 sediment, WC-3 - Ref 72. ALUS revised: ammonia, nutrients, dissolved oxygen supp 11/8/99. Possible lead cause; more information needed.			
Assessed between	19960101	and	19981231	
Designated Use	Support	Causes (Pollutants or stressors)	Sources (Activities)	391
Aquatic Life Support	Fully	Metals		
		Lead	T	
Fish Consumption	Partial		T	
		PCBs	M	
Primary Contact (Recreational)	Fully		Source Unknown	M
DRAFT				
Assessment Method				Assessment ID 391
240	Non-fixed station physical/chemical (conventional + toxicants)			
250	Chemical monitoring of sediments			
422	Water column/ E. coli grab samples			

Abbreviations: ALUS-aquatic life use support. BSS-Biological Studies Section. DELT-deformities, lesions, and tumors. D/S-downstream. FISH-fish consumption use support. HUA-hydrologic unit area. IBI-Index of biotic integrity (fish). LMTD-limited use support. mIBI-Macroinvertebrate index of biotic integrity. QHEI-Qualitative habitat evaluation index. RCRA-Resource Conservation and Recovery Act. RECR-recreational use support. RF3-USEPA Reach File 3. Str pipe-raw sewage discharge pipe. U/S-upstream. UTM-global positioning coordinates. Cause and source rating codes: H-high, M-moderate, S-slight, T-more information needed to decide.

ATTACHMENT 3

South Fork Wildcat Creek Cyanide Factsheet



WILDCAT CREEK WATERSHED

Cyanide And The South Fork Of Wildcat Creek

Introduction

The Fixed Station (Ambient) Monitoring Program, part of IDEM's Surface Water Quality Assessment Program, monitors the water quality at 160 Fixed Stations (sites) located on various waterbodies throughout the State every month. This program relies upon the sampling efforts of the Surveys Section of the IDEM Office of Water Management's Assessment Branch and laboratory analyses performed by the Indiana State Department of Health (ISDH). One of the Fixed Stations, WCS 34, is located on the South Fork of Wildcat Creek at State Road 39 just northwest of Frankfort. In recent years, cyanide has been detected in water samples at WCS 34. As a result, the South Fork of Wildcat Creek was considered impaired due to cyanide and was subsequently placed on Indiana's 303(d) list of impaired waterbodies. IDEM has targeted the South Fork of Wildcat Creek for TMDL development because of the 303(d) listing. Recently, an IDEM chemist uncovered a possible problem in the cyanide measurements from WCS 34.

Problem

The cyanide analysis being performed by ISDH is known to be very susceptible to interference from various chemicals. Nitrate and nitrite, which are routinely generated in wastewater treatments plants, are two such chemicals. EPA Method 335.4, the analytical method for total cyanide in water samples currently being utilized by ISDH, notes the following:

High results may be obtained for samples that contain nitrate and/or nitrite. During the distillation nitrate and nitrite will form nitrous acid that will react with some organic compounds to form oximes. These oximes will decompose under test conditions to generate HCN.¹

Since WCS 34 is situated downstream and in close proximity to the City of Frankfort Wastewater Treatment Plant, nitrate is always present at levels which could cause interference. Consequently, the cyanide results from WCS 34 cannot be considered reliable and need further investigation. The City of Hollywood Wastewater Treatment Plant in Hollywood, Florida noticed a similar nitrate interference problem in their cyanide measurements.

Solution

EPA Method 335.4 recommends the addition of sulfamic acid to water samples containing nitrate. "The interference of nitrate and nitrite is eliminated by pretreatment with sulfamic acid."¹ At the recommendation of IDEM, ISDH has started to pretreat Fixed Station water samples submitted for cyanide analysis with sulfamic acid.

Conclusion

Fixed Station cyanide data generated by ISDH will be scrutinized very carefully over the next year. If cyanide at WCS 34 is no longer present at or above the Water Quality Standard as a result of the method modification, then past detectable cyanide results will be neglected.

¹Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993, Method 335.4.

ATTACHMENT 4

Indiana State Department of Health Residential On-Site Sewage Disposal: A historical Perspective

Indiana State Department of Health Residential On-Site Sewage Disposal: A historical Perspective

(submitted by Dan Bloodgood, Clinton County)

1899

33 USC 407

Rivers and Harbours Act

Referred to as "the Refuse Act of 1899"

This was not intended as a "pollution" statute, it was intended to protect and improve the quality of the navigable waterways. It was used by the Federal Government to control water pollution.

1930's - 1978

Bulletin S.E. 8

Developed by Purdue University and the ISBH to guide development in the post-war rural and urban sprawl. The new building outside the reaches of municipal sewers utilized in-door plumbing. The new technology and regulations could not keep up with demand; consequently, several iterations were produced.

1943

IC 13-1-3

Stream Pollution Control Law

A State regulation which prohibits discharge into the waters of the State without a permit.

1949

IC 16-20-1-19

Powers and Duties

Local health officers shall enforce the "laws" of their own and superior boards of health.

1949

IC 16-20-1-23

Inspection of private property

The health officer (designee) can enter onto property, at proper times after due notice, to protect public health.

1949

IC 16-20-1-25

Order to abate unlawful conditions

A person shall not maintain an unhealthy condition, if they do, the health officer shall order abatement.

1977/1978

HSE 25/HSE 25R

Residential On-Site Wastewater Disposal

Needed because: counties were adopting different copies of SE 8; SE 8 did not have the force of law; and lack of consistency needed between counties. Provisions: allowed newer types of technology and soil evaluation (permeability) instead of perc tests (percolation).

1978

Rule 410 IAC 6-8
Residential On-Site Sewage Disposal Systems
Recodified HSE 25R

1980

IC 36-1-3
Home Rule
State generates broad statutes; Counties regulates local affairs/situations.

1990

Rule 410 IAC 6-8.1
Residential On-Site Sewage Disposal Systems
New provisions: site evaluation; more specific with technical information; and addressed drainage.

1996

Rule 327 IAC 5-1-1.5
Water Pollution Control Board
IDEM enforces, this replaces a policy. A residential dwelling cannot discharge (treated or untreated) waste to the waters of the State.

1999

Rule 410 IAC 6-8.2
Residential On-Site Sewage Disposal
New provisions: commercial and residential combined; corrects vague issues and provides clarification.